Counterterrorism Operations Support

Center for Radiological Nuclear Training

National and International Radiological Nuclear Weapon of Mass Destruction Training Program Overview

Principal Training Specialist

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Training Facility Locations

- Nevada National Security Site is 105 km (65 miles) from Las Vegas
- Two field training sites at the Nevada National Security Site
- From the Mercury dining facility
  - Phoenix Training Site is 35 km (22 miles)
  - T-1 Training Site is 48 km (30 miles)

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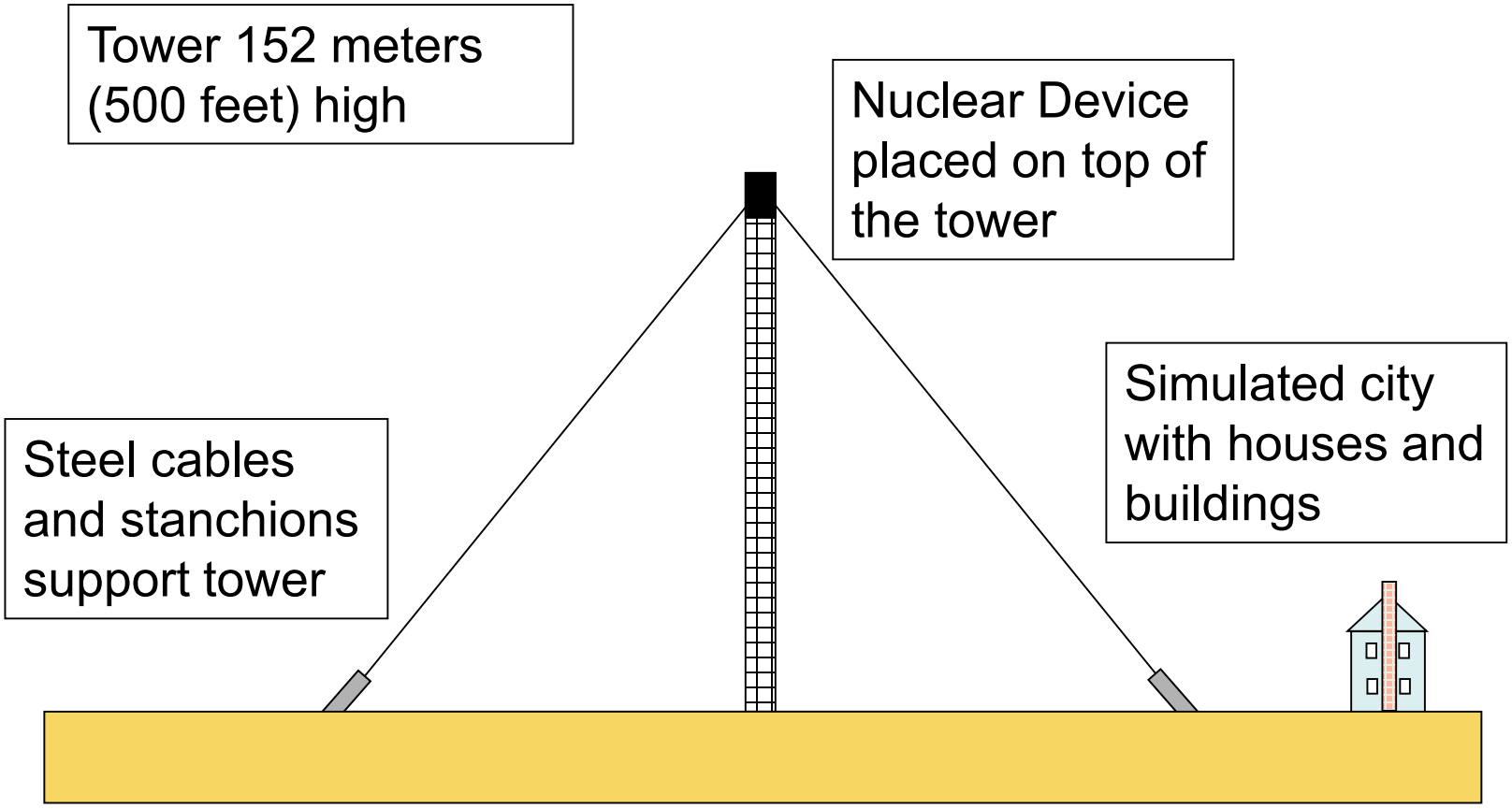
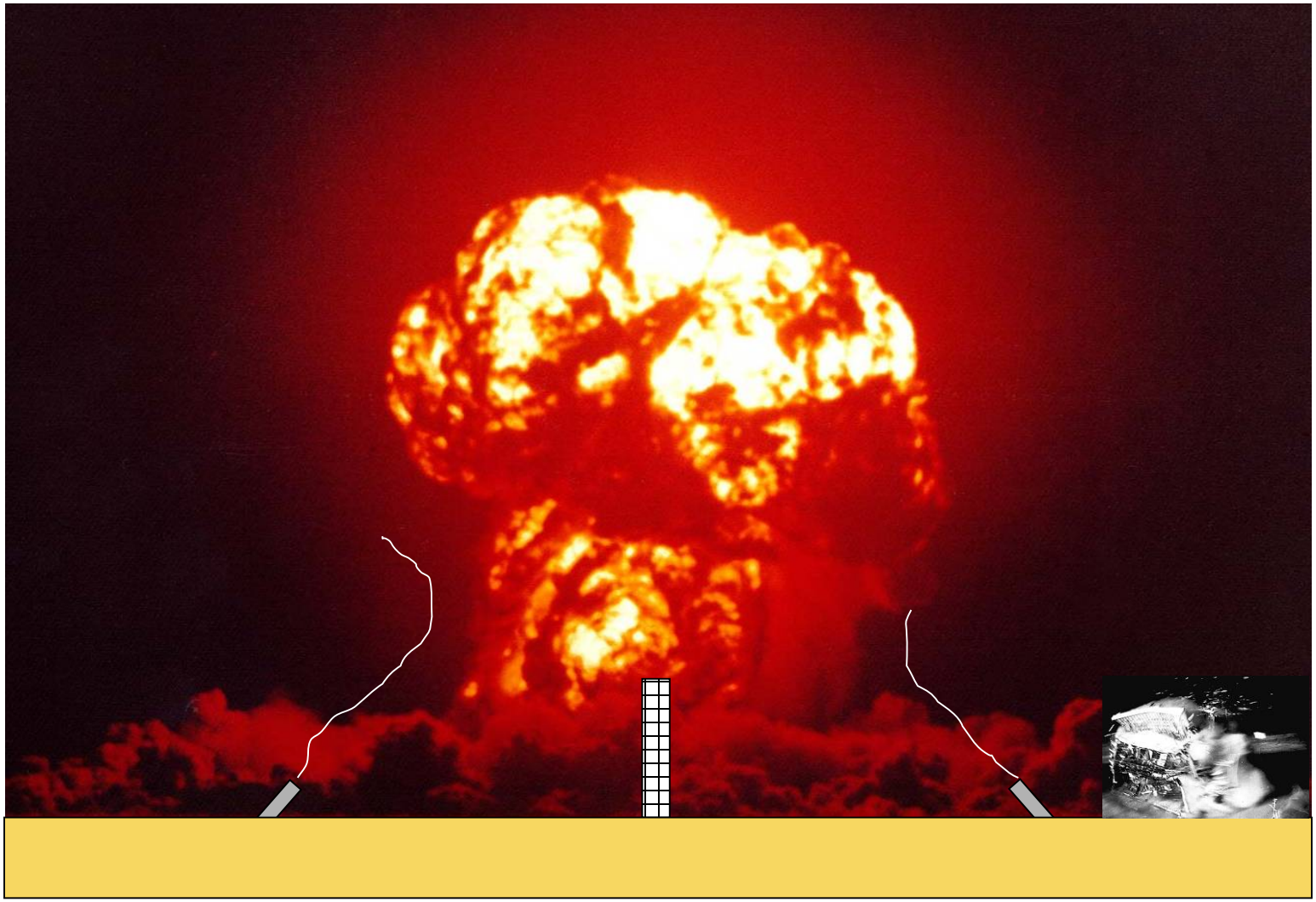
1955 Above Ground Test



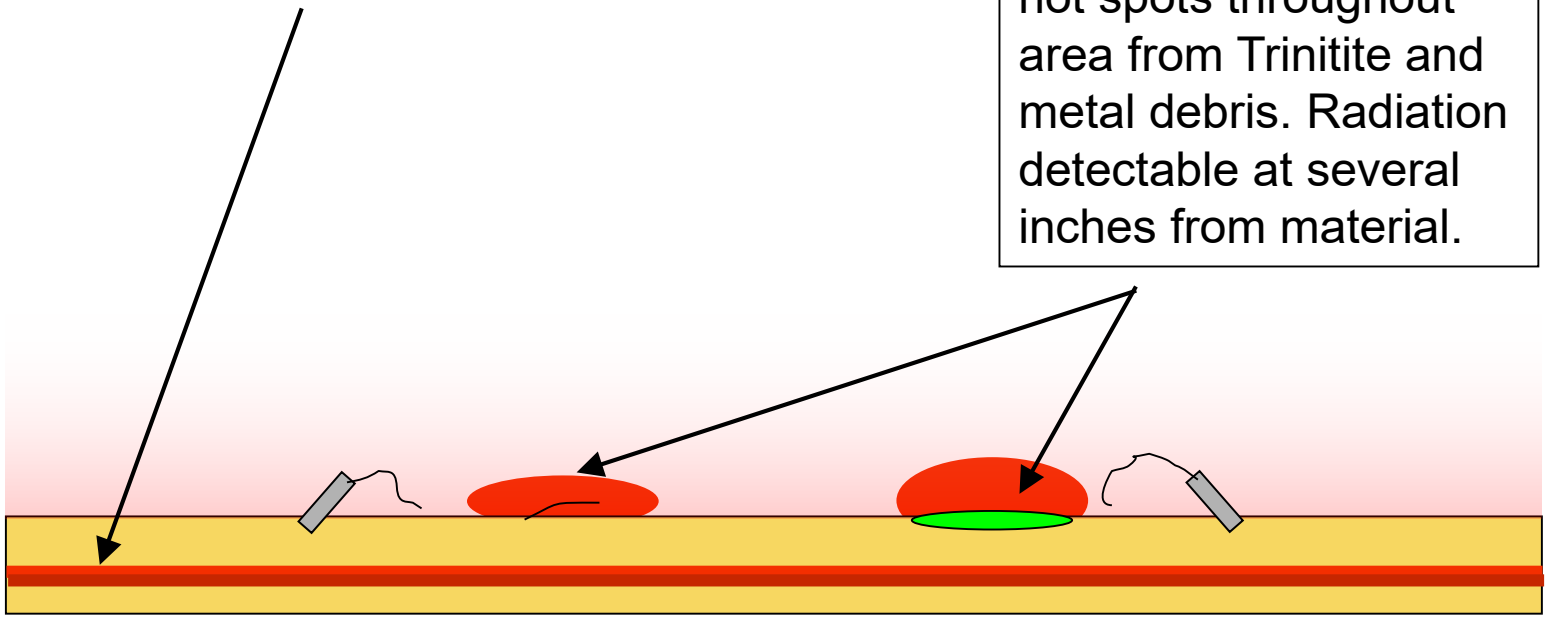
T-1 Detonation



T-1 Today, Over 63 Years Later

Cesium-137 remaining from the fallout has migrated below surface of the soil over last 63 years.

Localized radioactive hot spots throughout area from Trinitite and metal debris. Radiation detectable at several inches from material.



Area still has elevated, *but safe*, radiation levels due to Cesium-137 remaining from the fallout. Gamma radiation from underground Cesium reaches surface but the material stays underground.

Radiological/Nuclear Weapon of Mass Destruction Incident Exercise Site T-1

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Mission:

Develop and deliver the most realistic and highest quality training related initially to Radiological and Nuclear Prevention and Response and moving toward addressing all hazards

Present Focus:

Preventive Radiological/Nuclear Detection

- *Primary and Secondary Screener*
- *Team operations*
- *Normal/intelligence driven situations/large events*

- *Response*
  - *Nuclear Device*
  - *Radiological Dispersal Device*
  - *Radiation Exposure Device*

Future Focus:

Since Nevada National Security Site is authorized for the controlled use of All Hazards, future focus is on All Hazards training

Results:

- *18,105 Certificates issued in 2018*
- *Over 229,000 students trained since inception in 1998*

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CTOS Training

Target Audience

National/International Emergency Responders

- Law Enforcement
- Fire Service
- Emergency Medical Services
- National Guard Response Enterprise
- Whole Community

Certified Training

- Legally defensible
- Third Party review
- Federal Agency review
- INTERPOL review

Resident Training and Mobile Training Teams

Training Levels

- Fundamentals/Introduction
- Individual skills
- Team skills
- Leadership skills
- Hands-on drills, use of radiation sources, personal protective and detection equipment

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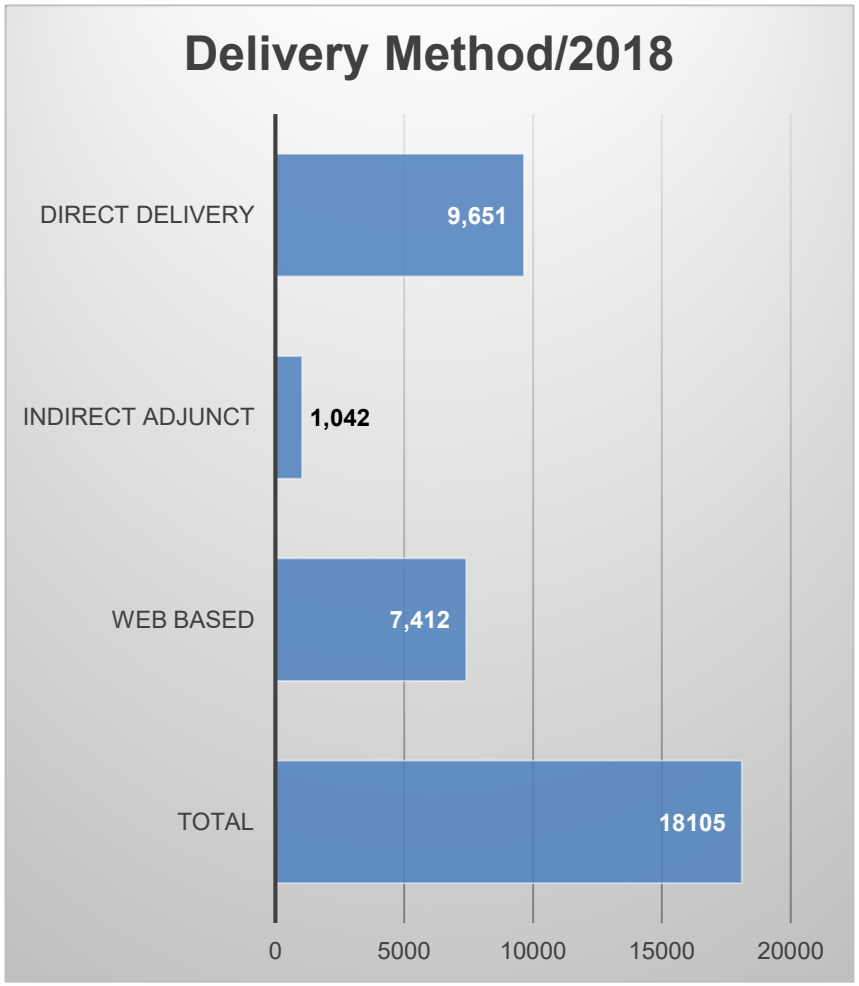
Domestic Training Operations

- 2018 Classes delivered in 96 cities and the Nevada National Security Site
- Over 95 instructors from all response disciplines
- Disciplines include Fire, Law Enforcement, Emergency Medical Service, Emergency Management, Federal Bureau of Investigation, Radiological Professionals, and National Guard disaster response units



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International Training Operations

INTERPOL Project Mercury, Pilot 1

- Radiological/Nuclear Incident Response Course
- Conducted September 26 – 29, 2016
- 35 Law enforcement officers from Central Asia, Caucasus, and Eastern Europe (11 Nations)
  - Central Asia – Kazakhstan, Kyrgyzstan, Uzbekistan, Tajikistan, Turkmenistan
  - Caucasus – Armenia, Azerbaijan, Georgia
  - Eastern Europe – Belarus, Moldova, Ukraine
- Course presented in the Russian language

INTERPOL Pilot 1











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International Training Operations

INTERPOL Project Mercury, Pilot 2

- Radiological/Nuclear Incident Response Course
- Conducted February 12 – 15, 2018
- 28 Law enforcement officers from the Middle East and North Africa (10 Nations)
  - Middle East – Iraq, Jordan, Kuwait, Lebanon, Qatar, Saudi Arabia, United Arab Emirates
  - North Africa – Morocco, Tunisia
- Course presented in the Arabic language

INTERPOL Pilot 2

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Unique Training Capabilities

- Training at actual ground-zero detonation site with elevated background radiation levels and sealed radioactive sources to simulate an actual radiological incident
- Venues depicting a realistic atmosphere for responders
- Industrial sites to conduct realistic prevention, response, and recovery training and exercises
- The Nevada National Security Site is authorized to train with all hazards

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Phoenix Training Facility

- **Industrial Complex with buildings and tunnel**
  - Challenges trainees with realistic radiological response scenarios.
  - Use of real, but safe radiological sources.
  - Requires trainees to organize into teams and plan survey/victim/ rescue strategy.

www.ctosnnsa.org